

NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, March 22, 2002

Vol. 27, No. 12

Lab gives a lift to Oak Ridge

By David Schwoegler
NEWSLINE STAFF WRITER

On March 13, Manny Ringer left Livermore in the national interest. Manny's moving on to Oak Ridge National Laboratory to help some colleagues who need a lift. Most Livermore employees didn't know Manny by name, but they recognized him when they saw him.

He wasn't hard to spot in a crowd. Manny's 29 years old, stands 14 stories tall, weighs 1,000 tons and packs a 320-foot boom — not a figure you're likely to forget. Also, Manny Ringer is actually his nickname. His full moniker is "Manitowoc 4600 Ringer Heavy-Lift Crane." But no one ever called him Mr. Crane — at least to his face.

Livermore rigging engineer John Reed, who managed Manny and prepped him for his major lifts, said, "Just a few percent of mobile cranes of Manny's generation worldwide have his reach and capacity. He's big, he's powerful, he's safe."

Manny's career with DOE began in 1983



"Manny Ringer," known to most employees as the massive crane parked just outside NIF, is moving on to Oak Ridge.

as a \$3.4 million-dollar rookie acquisition for the Nevada Test Site's underground nuclear testing program. Starting out with a fresh coat

See MANNY, page 8

LLNL, LBNL collaboration produces improved method for detecting radiation

By Anne M. Stark
NEWSLINE STAFF WRITER

Five years ago, physicist John Becker thought he'd change career directions.

But instead he had a conversation with some colleagues at Lawrence Berkeley National Laboratory and they started work on something they knew could fine-tune the science of detecting radiation.

The next thing they knew, they had designed and built a mobile, handheld mechanically cooled germanium radiation spectrometer.

The spectrometer not only finds the presence of hard X- and gamma radiation, but also provides information on the species as well. The detector is coupled to a low-power electronics package for

See DETECTOR, page 5

Lab's new research facility will break ground in April

A groundbreaking ceremony will be held April 4 for a new International Security Research Facility at the Laboratory.

The new research center will be used by Laboratory scientists to conduct state-of-the-art analysis on national security threats posed by the proliferation of weapons of mass destruction.

The two-story, 64,000-square-foot building will be constructed on the west side of the Laboratory, north of Mesquite Way and west of Avenue A.

Benicia-based Lathrop Construction Associates Inc., has been selected as the con-

See FACILITY, page 5

SAFE talk will go inside the mind of a terrorist

Have you ever wondered why terrorists do the things they do?

Law enforcement officials, particularly those involved in counterterrorism, have pondered that question for years.

The challenge has been to analyze patterns that may be linked to terrorist behavior and then



See SAFE, page 8

BASIS employees honored for their work

By Stephen Wampler
NEWSLINE STAFF WRITER

About 45 employees who deployed a biological detection system at February's Winter Olympics and in other U.S. cities were honored last week.

The outdoor ceremony, part of the Biology and Biotechnology Research Program's employee awards, was held March 14 on the lawn area in front of Bldg. 361.

Employees who operated or assisted in the deployments of the Biological Aerosol Sentry and Information System, or BASIS, at the Winter Olympics and in other locations received a plaque and gift certificate. Those recognized came from four directorates —

BBRP, NAI, Engineering and Computations.

"The BASIS capability was originally developed for the Olympics as a demonstration," said acting BBRP Associate Director Bert Weinstein.

"Once the anthrax attacks hit, this experimental system was suddenly in high demand. Overnight, people were asked to transform the demonstration system into a real deployed biological defense system," Weinstein added.

The deployments of Lab employees in Salt Lake City or other locations have ranged from two weeks to as long as three months.

Weinstein, who visited the BASIS team during their deployments, recalled that those

See BASIS, page 8



1963: Biomed's beginnings

— Page 3



DDLS looks at ancient stargazers

— Page 5



Material matters for security

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Saturday
23

A **power outage** is scheduled from 7 a.m. to 3 p.m. in the following locations: Bldg. 493 and Trailers 4924, 4926, 4997, 4998, and 4999. Contact: Mark Cardoza, 3-0490.

Tuesday
26

Kathleen Puckett, a former special agent in the FBI's Counterterrorism Division, will present "**Inside the Terrorist Mind**" at 10 a.m. in the Bldg. 123 auditorium. This is the second in a series of talks on counterterrorism being presented by the Security Awareness For Employees (SAFE) program. The talk is unclassified. All LLNL and Sandia employees and contractors and DOE personnel are invited to attend.

...

Ancient peoples' perceptions of space, time and the cosmos will be discussed when Clive Ruggles presents "**Archaeoastronomy — Stonehenge and Beyond.**" (See article page 5.) The talk, part of the Director's Distinguished Lecturer Series, takes place at 3:30 p.m. in the Bldg. 123 auditorium. Director Bruce Tarter invites all employees to attend.

Wednesday
27

The Employee & Organization Development Division is offering an **overview of the performance management**

process for employees from noon to 1 p.m. in the Bldg. 361 auditorium. Participants will receive suggestions for planning their input for performance appraisals as well as tips for appraisal discussion. Contact: Marissa Mertes, 2-4842.

Friday
29

The next session of the **Benefits Office's brown-bag series** on how to enhance your financial security by participating in the Tax-Deferred 403(b), will be held from 12:15-1:15 p.m. in Bldg. 571, conference room 2301. Additional sessions will be held the last Friday of each month through October. Attendance is open and no pre-registration is required. Bring your lunch and your questions.

...

The Lab Bible Study Groups are sponsoring a **Good Friday gathering**, a time of reflection, music and singing, in the Bldg. 543 auditorium. The 12:05-12:45 p.m. event is open to all Lab and Sandia employees. No food is permitted in the Bldg. 543 auditorium.

Up
&
Coming

LLESA and the American Red Cross are hosting a **blood drive** April 2, from 8:30 a.m. to 2 p.m. and April 3-5 from 7:30 a.m. to 1 p.m. in Bldg. 415. Appointments should be scheduled in advance at <http://www.beadonor.com> (company code: LLNL) or by calling the LLESA Office at 2-9402. Eligibility questions should be directed to the American Red Cross at 1-800-448-3543. Contact: Suzanne Sexton, 510-594-5213.

Celebrating 50 years



PHOTOS BY DAN DUNCAN AND SCOTT WILSON



Lab employees celebrated LLNL's 50 years of science by participating in the Dublin St. Patrick's Day parade last weekend. The Lab's new drill team (above) performed along the parade route, following the Lab's 50th anniversary float (left). The anniversary float will be included in three more parades this year.

Tri Valley Science Fair open this weekend

Christina Hisel of Amador Valley High School and the team of Patty Allen and Gemma Lewis of California High School were named senior sweepstakes winners last night at an awards ceremony for this year's Tri-Valley Science & Engineering Fair.

The three students each won an all-expense paid trip to the Intel International Science and Engineering Fair that will be held in May in Kentucky, where they will compete with students from 40 countries.

Their winning projects are among the 204 on display today through the weekend at Blackhawk Museum as part of the sixth annual Tri Valley Science and Engineering Fair.

For the first time, this year's fair will feature "Science Fair Saturday" from 1-4 p.m. on Saturday, showcasing family science fun. There will be a number of special exhibits and demonstrations, including

the Lab's Fun with Science program and energy bicycle, NASA/Ames' "Rock-It Science," Lindsay Wildlife Museum's "Reptile and Bird" program, and the Chabot Science Center's "Chabot-to-Go Sampler."

No admission fee will be charged by the museum today through Sunday, for organizing sponsors, corporate sponsors, and faculty, students and parents from participating Tri-Valley schools. Lab employees and their families get in free.

The Tri-Valley Science & Engineering Fair is an affiliate of the Intel International Science and Engineering Fair.

The exhibition of student projects may be seen by the public at the Museum today and Saturday, from 10 a.m. - 5 p.m. and on Sunday, from 10 a.m. - 3 p.m.

IN MEMORIAM

Elizabeth Finigan

Services have been held for Elizabeth "Liz" Finigan, who died March 1 in San Luis Obispo. She was 85.

Finigan was born in Oakland and attended San Jose State University. She began working at the Lab in 1953 and retired in 1982.

Finigan spent many years involved in the California Carver's Guild. She also enjoyed crocheting afghans, gardening and volunteering for many charitable organizations.

Survivors include her son, George; granddaughter, Genny; a brother, sister and many nieces and nephews. She was preceded in death by her husband, Pat, and grandson, Matt.

Newsline

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1952 - 2002 MAKING HISTORY, MAKING A DIFFERENCE



Understanding the effects of radiation on life

This is an ongoing feature highlighting the Lab's 50-year history. This week we take a look at the year 1963

In 1963, the Atomic Energy Commission mounted the first biomedical and environmental research program at Livermore as the need grew for a bioenvironmental presence at the Nevada and Pacific test sites. John Gofman, from the University of California, Berkeley, set up the program with the biomedical charge to study the effects of radiation on humans.

Eventually the biomedical focus of the program shifted toward biological measurements that indicated the dose to subjects who had been exposed to radiation. Increasingly, the focus was on DNA. By the time the Human Genome Project began sequencing all of the 3 billion base pairs of human DNA, Livermore was a major player.

Few of Livermore's biomedical contributions would have been possible without the Laboratory's multidisciplinary expertise. The current capability in computational biology, to identify and interpret the structure of proteins, depends largely on Livermore's strength in computations. This same cooperative spirit has led Livermore's Center for Accelerated Mass Spectrometry to concentrate on biological measurements. Concern about terrorism also has Laboratory scientists working together to improve detection systems for biological and chemical agents.



John Gofman (second from left), the first associate director for the Biomedical Program at the Laboratory, is shown discussing an abnormal chromosome pattern in malignant cells with Bernard Shore, Frederick Hatch, and Jason Minkler (from left).

Biomedical research 1963 begins

Around the world

- Limited Nuclear Test Ban Treaty signed
- President of South Vietnam assassinated
- U.S. starts retaliatory bombing in Vietnam
- Kenya celebrates independence from British colonial rule

Around the nation

- Kennedy assassinated and succeeded by Johnson
- Martin Luther King, Jr., delivers "I have a dream" speech
- Civil Rights Act signed
- Beatles' first U.S. hit: "I Wanna Hold Your Hand"
- Congress votes to guarantee women equal pay for equal work

- Supreme Court rules indigent defendants must be provided with an attorney
- New Hampshire runs first state lottery in United States.

Around the Lab

- John Foster is Lab's director
- Number of employees sharply increases in early 1960s
- Major Lab work includes nuclear weapons research, development, and testing; magnetic fusion; inertial fusion; and peaceful nuclear explosives testing. The Biomedical and Plowshare Programs were both established.

in other

NEWS

Significant events around the world, the nation and at the Lab.

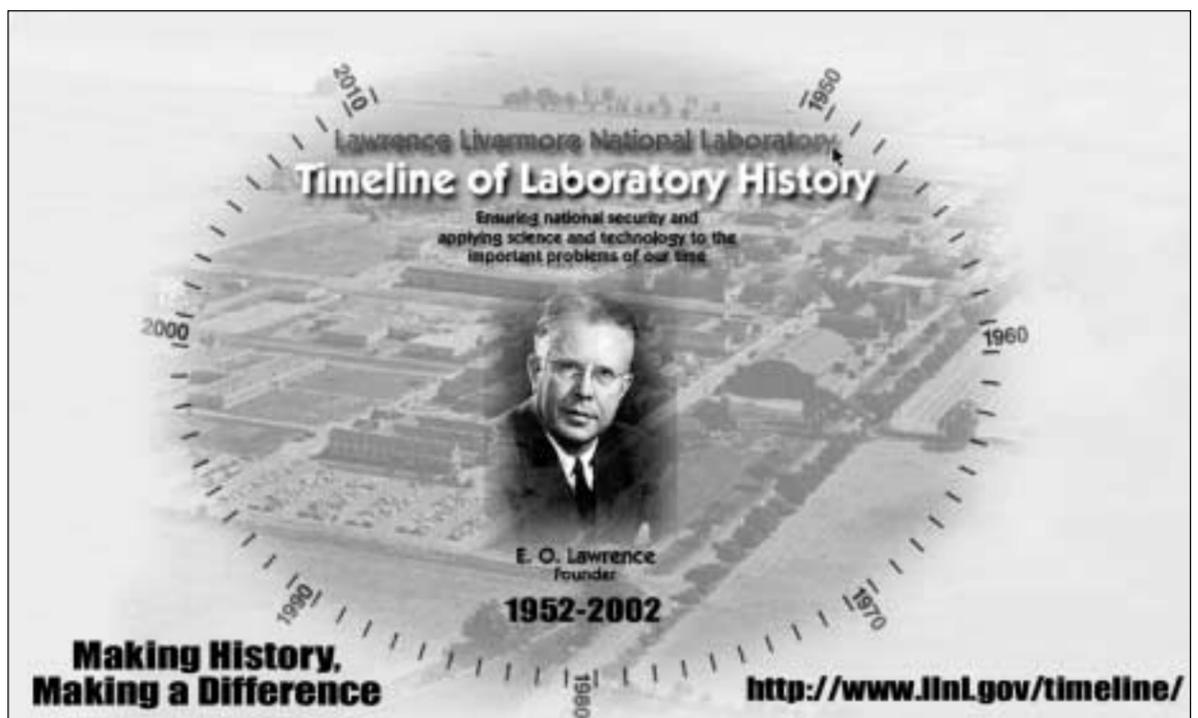
See the Timeline: <http://www.llnl.gov/timeline/>

See anniversary stories: http://www-r.llnl.gov/50th_anniversary/history.htm

Save this date!

**50th Anniversary
Celebration
&
Family Days**

**SEPTEMBER
21, 22**





NEWS YOU CAN USE

BRIEFLY

Update on benefits

Last December, the local community and many UC Care and HMO member employees and their families experienced a major health care provider disruption with the demise of Pacific Health Medical Group (PHMG). Since that time, all affected employees and dependents have been assigned to other providers by their health plans.

However, some employees still report dissatisfaction with the accessibility to their new providers, and PHMG providers who have joined UC Care (Aetna) Tier II network are only available at increased cost above the HMO model that was available before.

The fact that the Laboratory was notified during Open Enrollment added an additional measure of confusion, as the deadline for making changes was approaching, with a number of important questions still unresolved. The Laboratory was able to secure from the University flexibility for affected employees to transfer from HMO to HMO or from HMO to UC Care outside of the normal open enrollment period. This flexibility continues today.

In recognition of the continuing problems in the health care system and the resulting provider disruptions that affected UC employees statewide, the University recently announced that it has put the UC Care point-of-service

(POS) plan out to bid, along with the High Option /Supplement to Medicare and Core plans. UC has also requested proposals for a preferred provider option (PPO) and consumer model alternatives. Rather than retaining the highly customized plans that have proven more costly and more difficult to administer, UC will be looking at more standardized plans that will attract a wider set of providers. The effective date of any new plans will be Jan. 1, 2003.

Human Resources is planning a presentation by Michele French, director of Health and Welfare, UC Office of the President, to discuss developments in the health care industry and the University's strategies in addressing them. The date for the presentation will be announced once it has been finalized and will be open to Laboratory employees and retirees.

Finally, the Laboratory recently received UCOP approval of a funding request for the implementation of a permanent Health Care Facilitator (HCF) position at the Laboratory. Under the direction of the Benefits manager and in collaboration with various constituencies, the HCF will develop and administer a specialized health-care related service program; educate employees, annuitants, and their dependents about their University sponsored medical coverage and health care delivery system; assist individuals unable to access satisfactory

levels of service when established channels of assistance are unsuccessful; and intervene on behalf of employees or annuitants in the resolution of service complaints.

The position will be posted soon and the services will be available after the HCF has had an opportunity for an adequate orientation and the opportunity to establish contacts with plan representatives and other internal and external resources.

Lab extends Oboe series

Program Leader Charlie McMillan announced that "Oboe 9" will be the next subcritical experiment in the Oboe series. This experiment should be conducted in the spring, "down-hole" at U1a in the Nevada Test Site.

"This latest experiment should complete the set of data we need in preparation for the 'Piano' experiment," McMillan said.

In "subcrits," a coin-sized plutonium disc is shocked by high explosive, while sensitive instruments measure particles ejected from the surface. These experiments are part of an ongoing effort to learn more about the behavior of materials important in the operation of U.S. nuclear weapons.

Subcrits began July 2, 1997. Since then, 15 successful subcritical experiments have been conducted, 11 of them by Lawrence Livermore.

Technical Meeting Calendar

Friday
22

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"SIRTF SINGS: The SIRTF Nearby Galaxies Survey," by Rob Kennicutt, University of

Arizona. Noon, Bldg. 319, room 205 (badge required). Contacts: Adam Stanford, 3-6013, or Josie Morgado, 4-5201.

CHEMISTRY & MATERIALS SCIENCE

"MALDI and ESI Characterization of Dirhodium and Platinum Adducts of DNA Oligonucleotides Containing Dipurine Sites," by John M. Koomen, Texas A&M University. 10 a.m., Bldg. 151, room 1209 (uncleared area) Contacts: Sharon Shields, 2-0016, or Bonnie McGurn, 3-2764.

Monday
25

MATERIALS SCIENCE & TECHNOLOGY

"Predicting the Elastic Limit and Incipient Plasticity Mechanisms in Crystals," by Krystyn Van Vliet, Massachusetts Institute of

Technology. 10 a.m., Bldg. 235, gold room (uncleared area). Contacts: Brian Wirth, 4-9822, or Roberta Marino, 3-7865.

Tuesday
26

H DIVISION

"Fermi Surface Studies of Highly Correlated 4f Electron Systems," by Maurizio Biasini, Ente per le Energie Alternative e le Nuove Technologie.

10 a.m., Bldg. 319, room 205 (badge required). Contacts: Philip Sterne, 2-2510, or Donna Vercelli, 2-0976.

Wednesday
27

MATERIALS RESEARCH INSTITUTE

"Toward a General Theory of Bose-Einstein Condensation," by Dionisios Margetis, MIT. 3:30 p.m., Bldg. 219, room 163 (badge

required). Contacts: Riad Manaa, 3-8668, or Joanna Allen, 2-0620.

Thursday
28

CHEMISTRY & MATERIALS SCIENCE

Postdoctoral brown-bag seminars: "Spin-Resolved Photoemission of Surface States in H on W(110)," by

Michael Hochstrasser. "Preparation of Functionalized Si Nanocrystals," by Louisa Hope-Weeks. Noon, Bldg. 151, room 1209 (uncleared area). Contacts: Tony Esposito, 4-3497, or Linda Jones, 3-8839.

Friday
29

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"The Perfect Storm on a Neutron-Star Surface During Type-I X-Ray Burst," by Yuri

Levin, UC Berkeley. Noon, Bldg. 319, room 205 (badge required). Contacts: Chris Mauche, 2-7017, Josie Morgado, 4-5201.

MATERIALS SCIENCE & TECHNOLOGY

"Computational and Theoretical Study of Liquids and Glasses Under Tension," by Vincent Shen, Princeton University. 10:30 a.m., Bldg. 235, gold room (uncleared area). Contacts: George Gilmer, 3-0697, or Roberta Marino, 3-7865.

MATERIALS SCIENCE & TECHNOLOGY

"Efficient Conversion of Coal to Electricity Using Carbon Fuel Cells," by John F. Cooper, LLNL. 3:30 p.m., Bldg. 235, room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Thomas E. Felner: 2-8012.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

NEWS OF NOTE



DDLS gazes into perception of space, time, cosmos

Ancient peoples' perceptions of space, time and the cosmos will be discussed when Clive Ruggles presents "Archaeoastronomy — Stonehenge and Beyond." The talk, part of the Director's Distinguished Lecturer Series, takes place at 3:30 p.m. Tuesday, March 26 in the Bldg. 123 auditorium.

Director Bruce Tarter invites all employees to attend.

Ruggles, a professor of the School of Archaeology and Ancient History at the University of Leicester in England, believes ancient perceptions of space, time, and the cosmos provide insight into life in prehistoric times. The sky was an integral part of the environment by which time was measured and space

organized. Figures of cosmological importance often originated in the sky. Reconstructing aspects of those ancient skies can open a window to the prehistoric world.

However, such reconstructions have often proved highly controversial, with archaeologists and astronomers drawing notoriously different conclusions on the basis of the same evidence. Nowhere has this controversy been more evident than in interpretations of Stonehenge and later prehistoric stone monuments in Britain and Europe.

From these controversial origins, archaeoastronomy has developed as an interdisciplinary study to understand how ancient peoples used their knowledge of the skies, their belief systems,

and their religious practices. Archaeoastronomy research spans a huge spectrum of human societies throughout time and from all over the world.

Studies of prehistoric hunter-gatherers, historically attested societies with sophisticated knowledge of the heavens, such as the Maya, and modern indigenous traditions of knowledge, all address a range of questions of direct interest to archaeologists, anthropologists, and to historians of astronomy. Ruggles' talk will survey key developments and current issues in archaeoastronomy, and examine some of their wider implications.

Ruggles lecture will be broadcast on Lab TV Channel 2 Thursday, April 4, at 10 a.m., noon, 2, 4, and 8 p.m., and on Friday, April 5, at 4 a.m.

'Anatomy of Prejudice' presentation looks racism in the eye

Are you a racist? That's the provocative question Jane Elliott poses — and her audiences are often surprised by the answer. A former teacher from Iowa, she is the creator of the "Blue Eyes, Brown Eyes" exercise.

Elliott will be at the Lab on Thursday, April 11, to address "The Anatomy of Prejudice." Her presentation is part of the LLNL Facilitated Dialogue Series. Her talk, from 10 a.m. to noon, will be in the Bldg. 123 auditorium and is open to all employees. (Please note: This presentation will not be videotaped.)

A breakout dialogue session will immediately follow her talk from noon to 1:30 p.m. Today is the deadline to register to attend the dialogue session. Enrollment forms were sent to all employees via Lab mail. For more information, contact Michele Cardenas, 3-2796.

Elliott's "Blue Eyes, Brown Eyes" discrimination experiment is a sensitizing exercise in which participants are labeled inferior or superior

based on the color of their eyes. She first did this exercise in her third-grade classroom in all-white, all-Christian Riceville, Iowa, immediately after the assassination of Martin Luther King, Jr.

It has been repeated with dramatic results with children and adults throughout the country. Those who have been through the exercise have said it is an emotionally significant and life-changing experience.

Several television documentaries have covered her work, among them "A Class Divided," which dealt with the long-term impact of the exercises; and "The Eye of the Beholder," which dealt with adults and their reactions to discrimination.

Both videos will be shown on Lab TV, beginning Monday, March 25. They will run until Friday, April 5, and will air at 10 a.m., noon, 2 p.m. and 8 p.m. daily.

Elliott, who received her teaching degree from the University of Northern Iowa, is a recipient of the National Mental Health Association Award for

Excellence in Education. She has been a guest lecturer at numerous colleges and universities, and has been a guest on a wide variety of television shows, including the Today Show, Tonight with Johnny Carson, and the Oprah Winfrey show.

She is hailed as the leader in diversity training — a veteran presenter who has addressed groups ranging from colleges and universities to civil service organizations, elementary schools, corporations and businesses.

The Laboratory's Facilitated Dialogue Series is a speaker series that incorporates "dialogue" as a means of increasing understanding and learning about important diversity topics. Immediately following the speaker's presentation, individuals who have pre-registered will have the opportunity to participate in a group dialogue to explore in greater detail topics arising from the speaker's talk.

For more information about the program, contact Lorie Valle at 2-1770.

FACILITY

Continued from page 1

tractor for the project, which is due to be completed in early 2004, with occupancy later that year.

Total estimated cost for the project is \$24.6 million.

The International Security Research Facility will be the new home for the Nonproliferation, Arm Control and International Security (NAI) Directorate's

International Assessments Program, plus other elements of NAI and the Laboratory involved in global security and counterproliferation research and analysis.

The April 4 groundbreaking will begin at 10 a.m.

DETECTOR

Continued from page 1

control and signal processing.

In the past, in order to attain the high-energy resolution of germanium detectors, the germanium had to be cooled to 90 K in a laboratory setting using liquid nitrogen. However, this new germanium radiation spectrometer is cooled mechanically by a low-power, compact micro cryocooler, eliminating the need for liquid nitrogen, yet maintaining the same precision energy resolution of germanium.

Dubbed Cryo3, the spectrometer, which consists of a hermetically encapsulated germanium detector, utility vacuum housing, micro cooler, and controller, weighs 10 pounds. Cryo3 can operate up to eight hours on two rechargeable lithium ion batteries because of its low power requirements.

Cryo3 properties — precision energy resolution, good sensitivity, lightweight, low-power requirements, and mechanical cooling — mean that gamma-ray radiation spectrometers usually restricted to laboratory use can now be used in the field. Cryo3 can operate continuously unattended for at least six months without ever being turned off.

Cryo3 has clear applications for homeland



The portable radiation detector finds and identifies radioactive material. It can operate for eight hours using two camcorder batteries. The 10-pound device requires 13 watts of energy to operate and requires no liquid nitrogen for cooling.

security and counter terrorism. Researchers say the device would be able to determine the types of radioactive materials no matter where they might

be located — at a border crossing, in an airport, or even on a person.

"Cryo3 provides long-term germanium quality spectroscopy in the field with results comparable to laboratory measurements without the need for a liquid nitrogen supply," Becker said. "Cryo3 couples the high-energy resolution and efficiency of a laboratory-sized germanium detector with a low-power, lightweight long-lived micro cooler for the first time, enabling a mobile, handheld package."

Other applications for Cryo3 include remote area operation, shipboard operation, portal monitoring, cargo inspection, unobtrusive operations, and general applications where high-resolution gamma-ray spectroscopy is required and large-volume radiation detectors using liquid nitrogen are not feasible.

"Cryo3 offers extremely high-resolution radiation analysis in a portable package," said Lawrence Berkeley engineer Lorenzo Fabris.

The development team consists of John Becker of Livermore and Christopher Cork, Lorenzo Fabris, and Norman Madden of Berkeley. The four-year long development project is funded in part by the U.S. Department of Energy's Office of Nonproliferation Research and Engineering within the Office of Defense Nuclear Nonproliferation.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1992 - Toyota Corolla, 112K mi, am/fm stereo cassette, ac, good condition, great commuter car. \$2700 obo. 209-830-0684

1978 - Mustang II, one owner. 6 cylinder, engine size 2.8L, Automatic. Approx 55,000 miles. Very well maintained - service records available. \$2,400 925-855-9135

1994 - Chevy Camaro, white, V-6, 5-speed, Bose AM/FM cassette stereo, new tires, alloy rims, cruise, air, very clean & reliable, \$4,500 OBO. 925-964-0534

1988 - Firebird Hatchback. Sky blue, T-Top, Manual 5 spd, New brakes and clutch, AC, Alarm, Stereo, Alloy wheels, 130K miles. \$3600.00 OBO - 925-625-4331

1989 - Grand Caravan SE, 68 kmi on new engine/trans, new paint. 3.2l V6, 4spd auto, AC/PS/PB/AM/FM/cassette/cruise. One owner. Great condition. 925-443-1074

1994 - Pontiac Grand Am SE 4dr Automatic, New brakes, 71K miles, Great condition, \$3900 925-371-5089

1998 - Toyota Tacoma Truck, 44K miles, A/C, Manual Transmission, Toyota Bedliner, Excellent Condition, \$8700. 925-449-8970

1986 - Honda Accord DX, 5-speed, 2-dr. hatchback, 133K miles, good condition, good gas mileage, a/c not working. \$2500 925-447-2684

1995 - Ford Thunderbird LX silver very good condition 7000 miles on factory installed engine Runs great! \$6500 925-240-9065

1989 - Toyota Celica ST, 180K miles, well maintained, good commute car. \$1500/BO 510-208-5207

1992 - Honda Accord LX 2D Coupe. AT, AC, AM-FM Cass. 96k, Great Condition. \$5700 925-961-1089

1990 - Mazda MX6 loaded, only 63,500 miles, up to 33 MPG one owner, like new condition \$4,995. 925-735-6002

1991 - Chevy Suburban 1500. 45K on rebuilt drive train, 3rd seat, rear air, all options. Large roof rack, smogged, drives great and very clean. \$5800.00 925-449-9167

1994 - Chevrolet CORVETTE red 6-spnd 27,000 miles, removable targa top, like new \$18,750 925-932-3839

2000 - Kia Spectra GS Blue 15k commuter miles. Great commuter car. Is in great shape, beautiful paint. 60 month/60,000 Miles warranty. \$10,000.00 209-544-2451

1991 - Ford Probe, rebuilt transmission, four new tires, runs good, 122K miles, needs some body work \$1200 408-945-0250

1989 - Volvo 240, 4D sedan, burgundy color, 172k miles, runs well, \$2600 obo. 925-443-3326

AUTOMOBILE ACCESSORIES

Tires -p215/75/15. Wheels 15x6.5 inches with 5x5.5 bolt pattern. Wheels are aluminum and tires are new. Both \$400.00 209-833-8706

Brand new tires LT245/75 10 plys mounted on 8 lug forged aluminum rims. off 2002 Chevrolet HD. \$600 925-516-8339

Tires 265/75 16 inch mounted on 6 lug aluminum alloy chevrolet Z71 rims. \$250 925-516-8339

1993 Ford Escort - complete left front strut and brake assembly. Good Cond, many years fit same \$25.00 925-634-8523

1998 Chevrolet Silverado Stock Rims & Tires Tires are in fair condition. Asking \$100.00 for complete set. 209-862-2355

BICYCLES

Bicycle, Ladies, Blue, 10 Speed almost new \$35.00 925-634-4831

BOATS

Two LOBO Kayaks Colors: Graphite, yellow. Paddles for both, tow lines w/hooks, two adult size life jackets, small and medium. \$500.00 for all OBO 209-825-5275

ELECTRONIC EQUIPMENT

Compaq 5002 case with motherboard and 800MHz AMD Duron cpu, either the cpu or motherboard is bad. \$40 925-829-2848

Panasonic PV-700 VHS Camcorder with case, charger and battery. \$65 510-530-1884

Mac Radius 20 inch Grey Scale Monitor \$40, Mac printers \$10 ea., Mac internal Floppy \$10. x29914. 510-252-9596

Battery backup power supply for computers. Patriot Pro 750 UPS. 925-456-5848

Stereo power amp, homebrew 35 WPC built into 36 in. high wooden planter. Works great, only one like it on Earth. \$10. 925-455-5655

GIVEAWAY

Stained glass equipment- soldering iron, glass cutter, small amount of lead & glass 925-455-5672

Sofa sleeper blue w/wood trim and love seat cream pattern w/wood trim. Good condition. Getting new set and need space. 925-606-6422

Redwood 4 x 4 x 5 feet, 3 pieces 925-484-9028

Chain link fence (40+ feet) and two gates. Posts also available if you are willing to remove. Livermore. 925-456-5874

HOUSEHOLD

Jenn-Air electric modules. Closed European burner (sm. and lg. burner), rotisserie and griddle. \$350.00 for everything. 925-634-0822

Coffee table and end table, Colonial style, Cherry finish, good condition, \$30 for both- OBO. Digital pics available upon request. 925-803-9928

Two twin size beds, wood frame with three drawers (purchased one year ago @ \$598). Asking \$300 or best offer. 209-839-1828

Beautiful dark wook corner curio cabinet. \$350.00. 5x7 Hunter green aubusson rug \$50. 209-969-0381

Beautiful Teal suede Southwestern style jacket. Hardly worn. Size is a large small. Pd \$250.00 asking 80.00 obo 510-537-7222

Framed Painting by local artist Norma Webb (Collier Canyon Scene 1980) approx. 32x44 paid \$250 - sell for \$150 925-447-8613

Sophisticated/contemporary living room set. Glass tables and designer sofa/loveseat, cream/gold/silver tones. Photos available will sell separately. 925-516-8925

Three piece sofa corner group and coffee table. Excellent quality and condition. \$400.00 for all OBO. 925-449-8009

Electric Scooter - motorized chair for persons with limited mobility, rechargeable, indoor/outdoor, 1 year old. 925-449-6821

Electric Pasta Machine \$35, Oster Bread Machine 2LB. \$30 Both in Excellent Condition. 209-823-3211

Framed pictures, very nice quality, contemporary and southwest styles, prices vary/BO 449-3499 925-449-3499

Fischer Price kids table with 2 chairs \$20. 2 sets of royal blue sheets and comforters in race car design \$20. All in great shape. 925-292-1877

Sofa: Old fashioned, large, overstuffed, ball and claw foot, carved wood trim. Burgandy floral on tan background. Excellent condition, \$300. 925-243-9310

MULTI-FAMILY GARAGE SALE Furniture, toys and household goods; Saturday 3/23/02: 7:00AM - 2:00PM; 2925 Chateau Way, Livermore 925-443-4933

Solid wood farm table approx. 48x30 with 4 chairs. \$125 925-516-8339

Murphy bed, queen size (folds parallel to wall) with hed board. \$250.00 OBO 925-634-8523

Futon and frame, queen size, excellent cond. \$100. Antique sofa, light blue upholstery, excellent cond. \$300. 925-461-0805

Blue couch \$150. Two coffee tables- one blonde wood w/shelf below, one dark wood, glass tops, \$65 & \$85. Must sell! 209-832-3991

Sanyo 1400 Watt Large capacity Microwave oven Model EM-3520 Digital controls with temperature probe. Works very well. \$50 or make an offer. 925-373-0626

GARAGE SALE 9AM Saturday March 23 at 4680 Sarah Court Livermore 925-455-9414

Broyhill Furniture Set Beautiful couch, settee, chair/ottoman w/ matching kitchen table/chairs/valances and two pine end tables. Like new! \$3000/bo 209-482-5660

Desk, wood, 8-drawer 24x53x30 \$50. Oak computer stand 26x20x29 w/casters, pullout keyboard and additional shelf \$40.00 925-373-6492

Antique wicker peacock chair and wicker side table with 3 shelves. \$150 for both. 925-455-5655

LOST & FOUND

Found - wrist watch in A-4 parking lot on 3/19 - call 31777 with description. 925-449-1481

LOST: Black North Face fleece jacket at the south cafeteria on 3/11/02. 925-371-1607

Lost on 3/11/02. Sterling silver bead bracelet, Comfort Fit. Sterling silver beads strung on elastic band. If found, please call 3-5933 or 925-229-2240

MISCELLANEOUS

Storage: Livermore 400+ sqft ground level storage, 24 hour access, 10 min from lab, 10 min from downtown, \$175/mo, outdoor vehicle parking avail 925-784-8383

Dartboard, electronic Halex 3200-Q, up to 8 players. Paid \$75+. Never opened. Still in box. \$50. 925-648-0671

PC Laptop \$500 or b/o. CardioGlide Plus \$75; Voit Stair-Stepper w/digital display \$75; White washed oak coffee table \$30. 209-480-5405

Blood pressure monitor, one step auto inflation, like new \$50; Samsonite 24 inch hardside suitcase (wineberry) \$35 925-447-8613

Craftsman Table Saw, 2HP floor model, cuts to center of 48in plywood, like new. \$250.00 209-848-1375

Aprica Double Stroller \$170, Graco Infant Car Seat w/2 bases \$35, Bouncy Seat \$15. All Like New 209-823-3211

Large silk flower arrangement, beautiful, BO 449-3499 925-449-3499

Noahs Arc basinette bought used in good condition. \$20 OBO 925-456-6720

TurboTax 2001 Deluxe for Mac. \$20 925-417-7593

Excellent condition massage chair

\$300.00. 209-962-5468

Antique 4-drawer dark oak dresser with lead swivel mirror \$95.00 925-373-6492

Metal cabinet, from old lab workbench, grey, about 32H x 18W x 30D, single door, one shelf. \$5. 925-455-5655

PETS & SUPPLIES

10 gallon aquarium, supplies and long aquarium stand. \$20 925-455-5672

Free cat to good home. Digital picture available. Please call - 925-516-9293

100 gal fresh/salt water fish tank with 28 in tall wooden stand. Overall dimensions with stand 62 X 21 X 53 in. All accessories included. \$700/OBO 925-932-1360

Cockatiel, hand-tamed, three years old. Great personality, loves people and attention. \$40 209-835-8976

AquaClear aquarium filter ideal for 30-50 gallon tanks. \$10. 925-245-4570

RECREATION EQUIPMENT

Pool cover with reel \$100. Leslies 25x40 foot solar bubble cover, 25 foot aluminum reel. 925-449-1550

ROLLERBLADE 5-wheel racing skates. Brand new. Mens size 11-12. New wrist protectors incl. 925-932-3839

AerobicRider - Excellent condition w/ automatic timer. \$50 209-482-5660

Time Works 4 Minute Fitness Machine plus Torsotrack, both for \$70 925-443-5044

Weider PowerMax 3 station HomeGuy w/200 pound bench press \$135.00 925-373-6492

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

Walnut Creek - Concord-Pleasant Hill-Walnut Creek vanpool has one opening, new Enterprize GMC, 8:00 to 4:45 925-945-4926, ext. 2-2805

Danville - Camino Tassajara & Crew canyon (near Blackhawk)- 2 drivers/riders seeking additional members to carpool from south Danville area. 8:00 - 4:45 925-736-9441, ext. 2-1039

Manteca - Rider/Driver for Carpool. Drive 1 day wk & 1 day mo. Relax the rest. 7:45-4:30. 209-823-5085, ext. 2-0643

Orinda - Lafayette-Moraga carpool seeks 4th rider/driver. Lab hours 8:15am-5pm. Meets near Highway 24 and St. Stephens exit. 925-253-0498, ext. 2-9823

Modesto - 14 psgr. Captain chairs, reading lights. 7:45 - 4:30; \$110/mo. Help drive and reduce rate further. 209-521-9047, ext. 2-5177

Ceres/Modesto - 14 psgr Enterprise deluxe van, 7:00-3:30, \$110/month 209-537-0229, ext. 3-6631

SERVICES

House Painting - Exterior & Interior. Over 16 yrs experience. Call for free estimate. 209-956-3718

Wedding Photography: 21 yrs exp. Medium format cameras used. Reasonable prices and you keep the negatives. 925-829-1474

Cynthia Rose, a Wedding Photographer who captures your Precious Moments for a Lifetime. Price includes: Coverage, Photos, Negatives, & Album. 925-449-4967

Hauling Service. Estate Cleanouts, Attics, Garage, Shed and Barns. Misc... 925-373-9540

LICENSED DAYCARE in my home. Homemade meals, large fenced yard, full time service, 6:00am til 6:00pm.

Located in the Fremont. 510-713-2673

SHARED HOUSING

Livermore - Room for rent. Large Master Bedroom w/private bath, kitchen privileges. Quiet, non-smoker. \$775 p/month plus 1/2 utilities. 510-469-7999

Livermore - Room for rent in 2 bdr. 2 bath condo. \$550/mon. Incl. Inrnt access, PG&E, Water, and Garbage. 925-373-3168

Livermore - 2 rooms for rent in my 4br 2bath house. 12 min from lab through town. \$600 room per month. Split utils. Nice house quite neighborhood. Avail 4-1 925-519-8194

TRUCKS & TRAILERS

1985 - Chevy Suburban (diesel)80,000 on new engine. Needs some work. Sacrifice at 1,200. 209-956-3718

1988 - Ford Ranger XLII extended cab truck, 5 speed, A/C, 41k miles - all original! \$3000 209-836-0308

1998 - Tacoma Truck, 44K miles, A/C, Manual Transmission, Toyota Bedliner, Excellent Condition, \$8700. 925-449-8970

1987 - Red Ford F150 4 Speed in excellent condition. New clutch, new tires, low 113K miles, camper shell, carpet kit, and one owner. \$4K Phone 925-449-8422

1988 - TOYOTA 4x4, 5 speed, single cab, \$3500/or best offer. 925-443-3422

1996 - Toyota Tacoma- Xtra cab, 5spd., A/C, P/S, bed liner, CD, 140K miles, runs great. \$6000 obo. 209-982-0692

1992 - White Chevy Suburban 2500, 3/4ton, 454, 4x4, 3rd seat, rear air, pw, pl, tow package, 92-99 body, great cond, 166,000 miles, 50,000 on new trans. \$10,000 OBO. 925-449-7664

1978 - Chevy-Scottsdale, 70K Miles/Original/350 Engine, Power-Steering, Flow Masters, \$4,500 or OBO 925-243-0228

1994 - Chevy Suburban/Silverado 1500, V-8, 96K, 4 WD, Auto door locks and windows, cc, AM/FM CD, Security Starter Sys., 8 passenger. \$15,000 209-836-5252

VACATION RENTALS

Carlsbad, Ca - Carlsbad Inn. 1bedroom, 1 bath Condo, ocean view. RCI Gold Crown. Available week of Nov 2-9, 2002. 925-634-4831

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, newly remodeled, nicely furnished, all amenities, close to all skiing. Reserve Now! 209-599-4644

MAUI south Kihei oceanfront condo: beautiful ocean view, white sandy beach, pools, tennis, BBQ. Pro golf nearby. Low LLNL rates. 925-846-1459

WANTED

Wanted, Suzuki Samurai, or older stock CJ5 925-442-5549

DJ for backyard wedding reception on evening of 6/29/02. Will pay reasonable price. 925-648-0671

Landscaper to complete backyard. Livermore. (need drainage work, wood strip, planter box, and ideas). references please. Ready to start. 925-454-9224

Diaper changing table in good condition. Must be 43 in. wide or less. 925-456-5848

Trampoline, good condition, 449-3499

NEWS TO USE



Lab scientists to present at homeland security conference

Laboratory scientists will present special sessions on "Homeland Security: Science and Counterterrorism" at the Materials Research Society spring meeting and exhibit at the San Francisco Marriott and Argent hotels April 1-5.

Jeff Wadsworth, deputy director for Science and Technology, will deliver the plenary address at 6 p.m. Wednesday, April 3, in the Argent Hotel's Metropolitan Ballroom. Wadsworth will discuss how science and technology played a pivotal role in winning the Cold War and how science and technology are being applied to the new challenges posed by the threat of terrorism.

"As members of the scientific community we have a responsibility to address the threat of terrorism. The events of September 11 lend urgency

to work in materials science that contributes to homeland and international security," Wadsworth said. "This MRS meeting provides an opportunity for the materials research community to focus on security issues."

Jay Davis, a National Security Fellow in the Center for Global Security Research, will chair a panel discussion on "Science and Counterterrorism: How Can the Materials Research Community Participate and Help" at 6 p.m. Monday, April 1, in the Marriott's Salon 7.

Panelists include Randy Murch, assistant director of the FBI Laboratory, Amy Alving, director of DARPA's Special Projects Office, Duane Lindner, deputy director of Chem/Bio Programs at Sandia National Laboratories, and Skip Berkle, a

senior scholar at the John Hopkins University's Schools of Medicine and Public Health. Presentations by the speakers will be followed by a general panel discussion to address audience questions.

Other Lab materials scientists and engineers will be participating in technical symposia, which are divided into four basic topics: Electronic and Optoelectronic Materials; Molecular and Biomaterials; Nano-/Microstructured Materials and a general category. For complete information on the conference program, check the MRS Website: www.mrs.org/spring2002/program.

The Chemistry and Materials Science Directorate helped organize the MRS meeting in San Francisco.

Resource center will assist weapons workers, survivors

Nuclear weapons workers or their survivors can get help applying for benefits under a new federal workers' compensation program at a traveling resource center in Pleasanton next week.

The resource center will be open Tuesday-Thursday, March 26-28, at the Four Points Hotel, 5115 Hopyard Road, Pleasanton. Hours are 8:30 a.m. - 6p.m.

The Federal Energy Employees Occupational

Illness Compensation Program Act became effective July 31, 2001. It provides for compensation payment of up to \$150,000 and payment of medical expenses to employees who became ill as a result of their exposure to radiation, beryllium or silica. Conditions covered under this program are: radiogenic cancers, beryllium diseases and chronic silicosis. Qualified survivors of a covered employee are also eligible for compensation. An

amendment to the law passed by Congress in December 2001 means that adult children are now eligible for compensation if there is no qualified surviving spouse.

Workers who need help filling out claim forms can schedule appointments at the traveling resource center by calling, toll-free, (866) 697-0841, or drop in during the hours of operation. No appointment is needed.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Requisition	Classification	Title	Organization
AD	3745	105.3	Senior administrator	Administration
FI	3798	150.2/3	Senior resource analyst	Chief Financial Organization
BS	3767	225	Biomedical scientist	Biology & Biotechnology Research
EE	3836	249	Electronics engineer	Electronics Engineering
EZ	3823	249	Engineer	Energy & Environment
ME	3789	249	Mechanical engineer	Mechanical Engineering
EE	3837	256	Mathematician	Electronics Engineering
PT	3262	270	Physicist	Physics & Advanced Technologies
PT	3748	270	Physicist	Physics & Advanced Technologies
AI	3819	285	Computer scientist	Administrative Information Systems
AI	3820	285	Computer scientist	Administrative Information Systems
AI	3854	285	Computer scientist	Administrative Information Systems
CO	3812	285	Computer scientist	Computation
EP	3137	302.1	Scientific associate	Environmental Protection
EE	3828	337.1	Technical associate	Electronics Engineering
ME	3741	337.1/339.2	Technical associate	Mechanical Engineering
PE	3762	405.2	Administrative specialist II	Plant Engineering
NF	3695	405.3	Administrative specialist III	National Ignition Facility Programs
PE	3755	405.3	Administrative specialist III	Plant Engineering
EZ	3822	405.4	Administrative specialist IV	Energy & Environment
PT	3826	405.4	Administrative specialist IV	Physics & Advanced Technologies
ME	3780	538.1/2	Coordinator	Mechanical Engineering
PE	3754	805.4	Laborer lead	Plant Engineering
PE	3687	826.1	Plumber	Plant Engineering
PE	3732	862.4	Maintenance mechanic	Plant Engineering

More information on these job postings as well as those at other UC sites and outside organizations is available through the World Wide Web. Go to the Lab's internal home page, click on "Employee Resources," then click on "Jobs."

"We maintain stock in over 130 areas throughout the Lab and Site 300."

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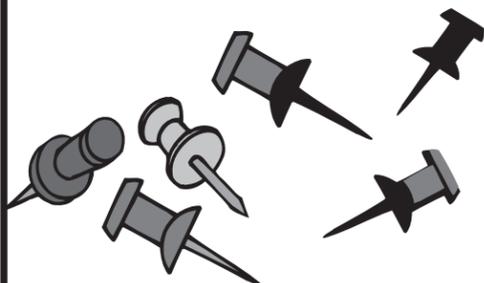
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For further information or a brief presentation in your area, call Ron Young, team leader for Shop Stock, 4-4100 or pager 5-5276.



THE BACK PAGE

BASIS

Continued from page 1

Lab employees were “pleased” to be working only 12-hour shifts after initially pulling much longer stints.

“Conducting deployments at the Salt Lake City Olympic Games have been a tremendous learning experience for our biodefense efforts. We learned some of the strengths and weaknesses of our technology, as well as how to make improvements for the next round,” Weinstein said. “We also acquired experience in how to work with the multitude of agencies involved in a complex event like the Olympics.”

Several of the team members expressed their gratitude at being able to do something for the nation, Weinstein noted.

One of the problems faced by the BASIS team was that even though the employees were on another deployment, they had to start setting up an operation in Salt Lake City in January for



SHERI BYRD/NEWSLINE

Among the BASIS team members honored last week were, (from left) Kris Montgomery, Julie Avila, Mark Wagner, Virginia Montgomery, Paula McCready, Cheryl Strout and Jackie Cofield.

the Winter Olympics.

“The last weeks of 2001 were a frenzy as our workers acquired new computers and lab gear and prepared everything for shipment,” said Tom Slezak, bioinformatics leader for the BASIS team.

“Our previous deployment had given the Computations developers enough experience to improve the error-checking software for the Lab data entry system so that they only needed one Computations person on-site for the Olympics at most times,” Slezak added.

Developed by researchers at Lawrence Livermore and Los Alamos national laboratories, BASIS consists of a network of sampling units, similar to those used by the Environmental Protection Agency to monitor air quality, and to collect and check aerosols. Filters capture aerosols and are then collected for analysis several times a day.

At the heart of BASIS is a transportable field laboratory where collected samples are analyzed using the most reliable and sensitive identification techniques available. The samples are analyzed using DNA-based techniques that have been validated

with the Centers for Disease Control and Prevention.

BASIS reduces the time for detecting a bioagent release from days or weeks to less than a day, allowing public health officials to have much more rapid warning.

SAFE

Continued from page 1

use that information to identify — and to ask the public to help identify — behavior that could lead to terrorist acts.

Very few people have studied the problem so extensively that they have figuratively managed to get inside the terrorist mind.

One such person is Kathleen Puckett, a psychologist and behavioral analyst. She will speak on “Inside the Terrorist Mind” at 10 a.m.

Tuesday, March 26, in the Bldg. 123 auditorium. LLNL and Sandia employees and contractors and DOE personnel are invited to attend. The talk is unclassified.

During a distinguished 23-year career as an FBI special agent, Puckett was frequently involved in the investigation and analysis of cases involving international terrorism.

Between 1994 and 1998, she was the primary behavioral expert during the UNABOMB investigation, and served on the U.S. Department of Justice psychiatric team during the prosecution of Theodore

Kaczynski.

After completing a research internship in San Francisco at a state-licensed conditional release for mentally disordered offenders program, she finished her Ph.D. in clinical psychology in September 2000. During the following year, she conducted a multi-jurisdictional study of lone offender domestic terrorism for the Counterterrorism Division of the FBI. Subjects included Timothy McVeigh, Theodore Kaczynski and Eric Rudolph.

The program will be cablecast live on Lab TV Channel 2.

MANNY

Continued from page 1

of paint and a 600-ton lifting capacity, Manny lowered devices and diagnostics down-hole for events at Yucca Flats and Pahute Mesa.

But the 1992 nuclear testing moratorium put a cap on Manny’s NTS career in the form of “ICECAP,” the last scheduled underground test at Yucca Flats — a shot that was never fired. Manny stood patiently by the ICECAP tower, waiting to swing into action. He remained there idle for seven years. His metal muscle and steel sinew sagged unflexed, as the desert sun bleached his paint and tufts of rust blossomed on his boom.

However, Manny’s talents were impossible to hide — even at a vast, remote location like the Nevada Test Site. Once rediscovered, it was just a matter of some fancy negotiations and plain paperwork before DOE put Manny on the road to Livermore to work on the National Ignition Facility. As becoming a figure of his stature, Manny didn’t travel lightly. His entourage totaled 66 truckloads, including nearly a dozen nine-axle trailers.

At Livermore, Manny emerged immediately as a big man on campus. In addition to hoisting the NIF target chamber twice, Manny performed more than 250 power-lifts. He placed 24 concrete roof trusses at 80 tons each, as well as 220 multi-ton

roof planks. Manny also set the 30-ton target diagnostics vessel. Single-handedly Manny performed tasks that would have required three separate contractors.

Manny became a darling of the news media, too. The 287,000-pound, 33-foot round target chamber may have been the star during his lifts, but Manny appeared in all the photos and television footage in his critical supporting role.

But alas, the NIF target chamber rests in place, and the building has been “topped out.” In a career that has lifted millions of pounds — and millions of dollars — of technology, it was time again for Manny to move on to a place where his gargantuan size and Herculean strength could be put to use. Manny’s co-workers at Livermore searched the DOE complex to find the perfect partnership at Oak Ridge.

It was quite a change for Manny moving from the deserts of Nevada to the fertile vineyards of Livermore. And it was quite a change from lowering delicate scientific assemblies down-hole to lifting construction members many stories above ground. Likewise, Manny will notice the contrast between the Livermore laser and the Synchronous Neutron Source in Tennessee.

But perhaps the biggest change awaits Manny inside Oak Ridge: The people there have already christened their new crane “Big Bertha.”



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